

ALIGNMENTS

Sequence Comparison
"A"

RESULT 1

AAY99372

ID AAY99372 standard; Protein; 331 AA.

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AC AAY99372;

XX

DT 08-AUG-2000 (first entry)

XX

DE Human PRO1430. (UNQ736) amino acid sequence SEQ ID NO:116.

XX

KW Human; PRO polypeptide; membrane bound protein; receptor; diagnosis;

KW transmembrane; secretion; immunoadhesion; pharmaceutical; screening.

XX

OS Homo sapiens.

XX

PN WO200012708-A2.

XX

PD 09-MAR-2000.

XX

PF 01-SEP-1999; 99WO-US20111.

XX

PR 01-SEP-1998; 98US-0098716.

PR 01-SEP-1998; 98US-0098749.

PR 01-SEP-1998; 98US-0098750.

PR 02-SEP-1998; 98US-0098803.

PR 02-SEP-1998; 98US-0098821.

PR 02-SEP-1998; 98US-0098843.

PR 09-SEP-1998; 98US-0099536.

PR 09-SEP-1998; 98US-0099596.

PR 09-SEP-1998; 98US-0099598.

PR 09-SEP-1998; 98US-0099602.

PR 09-SEP-1998; 98US-0099642.

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PA (GETH) GENENTECH INC.

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PI Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;

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DR WPI; 2000-237871/20.

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DR N-PSDB; AAA37054.

XX

PT New mammalian DNA sequences encoding transmembrane, receptor or
PT secreted PRO polypeptides, useful for screening of potential peptide or
PT small molecule inhibitors of the relevant receptor/ligand interactions

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PS Claim 12; Fig 66; 773pp; English.

XX

CC AAA37022 to AAA37144 encode the new isolated human transmembrane,
CC receptor or secreted PRO polypeptides given in AAY99340 to AAY99462. The
CC transmembrane and receptor PRO proteins can be used for screening of
CC potential peptide or small molecule inhibitors of the relevant
CC receptor/ligand interactions. The polypeptides and nucleotide sequences
CC encoding then have various industrial applications, including uses as
CC pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent
CC PCR primers and hybridisation probes used in the isolation of the PRO
CC polypeptides from the present invention.

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SQ Sequence 331 AA;

Query Match 100.0%; Score 1695; DB 21; Length 331;
 Best Local Similarity 100.0%; Pred. No. 4.5e-166;
 Matches 331; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSRYLLPLSALGTVAGAAVLLKDYVTGGACPSKATIPGKTVIVTGANTGIGKQTALELAR 60
 Db 1 MSRYLLPLSALGTVAGAAVLLKDYVTGGACPSKATIPGKTVIVTGANTGIGKQTALELAR 60
 QY 61 RGGNIILACRDMEXCEAAAKDIRGETLNHHVNAHLDLASLKSIREFAAKIIEEERVDI 120
 Db 61 RGGNIILACRDMEXCEAAAKDIRGETLNHHVNAHLDLASLKSIREFAAKIIEEERVDI 120
 QY 121 LINNAGVMRCPHWTTEDGFEMQFGVNLGHFLLTNLLLDKLKASAPSRIINLSSLAHVAG 180
 Db 121 LINNAGVMRCPHWTTEDGFEMQFGVNLGHFLLTNLLLDKLKASAPSRIINLSSLAHVAG 180
 QY 181 HIDFDDLNWQTRKYNTKAAAYCQSKLAIVLFTKLSRRLQSGSVTVNALHPGVARTELGRH 240
 Db 181 HIDFDDLNWQTRKYNTKAAAYCQSKLAIVLFTKLSRRLQSGSVTVNALHPGVARTELGRH 240
 QY 241 TGIHGSTFSSTTLGPFWLLVKSPELAAOPSTYLAVAEELADVSGKYFDGLKQKAPAPEA 300
 Db 241 TGIHGSTFSSTTLGPFWLLVKSPELAAOPSTYLAVAEELADVSGKYFDGLKQKAPAPEA 300
 QY 301 EDEEVARRLWAEARLVGLEAPSVREOPLPR 331
 Db 301 EDEEVARRLWAEARLVGLEAPSVREOPLPR 331

RESULT 2
AAE05174
ID AAE05174 standard; Protein; 331 AA.
XX
AC AAE05174;
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DT 12-SEP-2001 (first entry)
XX
DE Human drug metabolising enzyme (DME-5) protein.
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KW Human; drug metabolising enzyme; DME-5; immunosuppressive; gene therapy;
KW cytostatic; autoimmune disorder; inflammatory disorder; atherosclerosis;
KW osteoporosis; eye disorder; hepatic tumour; Addison's disease; cretinism;
KW rheumatoid arthritis; acquired immune deficiency syndrome; AIDS; anaemia;
KW developmental disorder; endocrine disorder; iritis; acromegaly; epilepsy;
KW thyrotoxicosis; pancreatic disorder; diabetes mellitus; obesity; adenoma;
KW gastrointestinal disorder; nodular hyperplasia; conjunctivitis; glaucoma;
KW actinic keratosis; metabolic disorder; dysphagia; anorexia; carcinoma;
KW cell proliferative disorder.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..17
FT /label= signal_peptide
FT Protein 18..331
FT /note= "Mature drug metabolising enzyme (DME-5) protein"
XX
PN WO200151638-A2.
XX
PD 19-JUL-2001.
XX
PF 12-JAN-2001; 2001WO-US01174.
XX
PR 14-JAN-2000; 2000US-0176139.
PR 21-JAN-2000; 2000US-0177443.
PR 28-JAN-2000; 2000US-0178574.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Yang J, Baughn MR, Burford N, Au-Young J, Lu DAM, Reddy R;
PI Ring HZ, Hillman JL, Yue H, Azimzai Y, Yao MG, Gandhi AR;
PI Nguyen DB, Tang YT, Lal P, Bandman O;
XX
DR WPI; 2001-425874/45.
DR N-PSDB; AAD09940.
XX
PT Drug metabolizing enzymes and encoding polynucleotides, useful for
PT diagnosing, treating and/or preventing autoimmune, inflammatory, cell
PT proliferative, developmental, endocrine, eye, metabolic, and
PT gastrointestinal disorders -
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PS Claim 1; Page 139-140; 133pp; English.

Sequente Comparison
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CC The present sequence is human drug metabolising enzyme (DME-5) protein.
CC Human DME and its nucleic acid molecule are useful for the diagnosis,
CC treatment and prevention of disorders associated with increased or
CC decreased expression of DME. Examples of such disorders include,
CC autoimmune/inflammatory disorder such as acquired immune deficiency
CC syndrome (AIDS), rheumatoid arthritis, osteoporosis; cell proliferative
CC disorder such as actinic keratosis, atherosclerosis; developmental
CC disorder such as epilepsy, anaemia, endocrine disorder such as
CC acromegaly, cretinism, thyrotoxicosis; pancreatic disorder such as
CC diabetes mellitus; eye disorder such as conjunctivitis, glaucoma, iritis;
CC metabolic disorder such as Addison's disease, obesity; gastrointestinal
CC disorder such as anorexia, dysphagia and hepatic tumours including
CC nodular hyperplasia, adenomas and carcinomas. DME DNA is useful for
CC creating 'knockin' humanised animals (pigs) or transgenic animals (mice
CC or rats) to model human disease. DME DNA is also in useful is gene
CC therapy. DME and its immunogenic fragments are useful for screening
CC libraries of compounds in several drug screening assays.
XX
SQ Sequence 331 AA;

Query Match 100.0%; Score 1695; DB 22; Length 331;
Best Local Similarity 100.0%; Pred. No. 4.5e-166;
Matches 331; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSRYLLPLSALGTVAGAAVLLKDYVTGGACPSKATIPGKTVIVTGANTGIGKQTALRLAR 60
Db 1 MSRYLLPLSALGTVAGAAVLLKDYVTGGACPSKATIPGKTVIVTGANTGIGKQTALRLAR 60

Qy 61 RGGNIILACRDMEKCEAAKDIRGETLNHHVNAHRLDLASLKSIREFAAKIIEEERVDI 120
Db 61 RGGNIILACRDMEKCEAAKDIRGETLNHHVNAHRLDLASLKSIREFAAKIIEEERVDI 120

Qy 121 LINNAGVMRCPHWTTEDGFEMQFGVNHGLHPLLNLNLLDKLKASAPSRINLSSLAHVAG 180
Db 121 LINNAGVMRCPHWTTEDGFEMQFGVNHGLHPLLNLNLLDKLKASAPSRINLSSLAHVAG 180

Qy 181 HIDPDDLNWQTRKYNTKAAAYCQSKLAIVLPTKLSRRLQSGVTVNALHPGVARTELGRH 240
Db 181 HIDPDDLNWQTRKYNTKAAAYCQSKLAIVLPTKLSRRLQSGVTVNALHPGVARTELGRH 240

Qy 241 TGIHGSTFSSTTLGPIFWLLVKSPELAAPSTYLAVAEELADVSGKYFDGLKQKAPAPEA 300
Db 241 TGIHGSTFSSTTLGPIFWLLVKSPELAAPSTYLAVAEELADVSGKYFDGLKQKAPAPEA 300

Qy 301 EDEEVARRLWABESARLVGLEAPSVREQLPR 331
Db 301 EDEEVARRLWABESARLVGLEAPSVREQLPR 331